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EXAMINER

SHANG, ANNAN Q

ART UNIT PAPER NUMBER

2614

DATE MAILED: 04/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/823,064

Applicant(s)

ARAI ET AL.

Examiner

Annan Q Shang

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 May 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 07/01, 03/01.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-2, 4-13, 15, 17-18, 20-21 and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by **Schumacher et al (6,757,907)**.

As to claim 1, note the **Schumacher** reference figure 1, 2 and 6, discloses a display selection in a video-on-demand system and further disclose an image distribution apparatus comprising:

the claimed "an image input part..." is met by Video-on-demand System (VOD-S) 100 (figs. 1, 6, col. 3, lines 40-49 and col. 5, lines 33-44), which receives image information from an external source(s) "image supply source," such as, WWW Server (Web) 612, movies, documentaries, sports, news, etc.;

the claimed "an image storage medium..." is met by the VOD System 100 or Web 612 storage mediums (col. 3, lines 40-49, col. 5, lines 33-44 and col. 6, lines 27-28), which stores the image information inputted by the image WWW Server 612 or external source(s);

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the claimed "an operating information input part..." is met by Display 122, a PC, Handheld PC or Wireless mobile device with browser interface to Web 612 (fig. 2, col. 2, lines 58-60, col. 3, line 44-53 and col. 6, lines 4-22), which inputs operating information including information for specifying a program to be distributed and display characteristics "information relating" to a Display 221 or 222 "a receiver terminal" and information relating to bandwidth "a distribution line" (see fig. 2);

the claimed "an image selecting/processing circuit..." is met by Processing System (Pro-S) 103 of VOD-S 100 (fig. 1, col. 2, lines 29-36, col. 3, lines 19-35 and col. 4, lines 5-52), which receives the program specification information, including the image information stored in the VOD-S 100 or Web 612 storage medium and which selects and outputs image information, and, when the program image information included in the information stored in VOD-S 100 or Web 612 storage mediums is not suitable image information corresponding to display characteristics of Display 221 or 222 "receiver terminal" information, processes the program image information included in the image information stored in VOD-S 100 or Web 612 storage mediums into the suitable image information and outputs the processed suitable image information; where Pro-S 103 "a distribution line selection circuit" selects either First Communication interface (First-Com) 101 or the Second Communication Interface (Sec-Com) 102 "a suitable line" corresponding to the distribution line information and outputs image information outputted from Pro-S 103 to First-Com 101 or Sec-Com 102 (col. 4, lines 5-52 and col. 5, line 53-col. 6, line 22), note that same video content can be display on the Fixed

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Television T-Display 121 or wire-line or wireless handheld portable computer 122, each with different selected display characteristics and selected bandwidth.

As to claim 2, note the **Schumacher** reference figure 1, 2 and 6, discloses a display selection in a video-on-demand system and further disclose an image distribution apparatus comprising:

the claimed "an image input part..." is met by Video-on-demand System (VOD-S) 100 (figs. 1, 6, col. 3, lines 40-49 and col. 5, lines 33-44), which receives a plurality of types or image information from an external source(s) "image supply source," such as, WWW Server (Web) 612, movies, documentaries, sports, news, etc., note that a plurality of types image information for a single program is received to enable selecting a suitable communication medium to transmits the program based on the configuration information or characteristics received from T-Display 121 or PC 122;

the claimed "an image storage medium..." is met by the VOD System 100 or Web 612 storage mediums (col. 3, lines 40-49, col. 5, lines 33-44 and col. 6, lines 27-28), which stores the image information inputted by the image WWW Server 612 or the external source(s);

the claimed "an operating information input part..." is met by Display 122 or PC or handheld PC with browser interface to Web 612 (fig. 2, col. 2, lines 58-60, col. 3, line 44-53 and col. 6, lines 4-22), which inputs operating information including information for specifying a program to be distributed, information relating to display characteristics of Display 121 or PC 122 "a receiver terminal" and information relating to bandwidth "a distribution line" (see fig. 2);

the claimed “an image selecting circuit...” is met by Processing System (Pro-S) 103 (fig. 1, col. 2, lines 29-36, col. 3, lines 19-35 and col. 4, lines 5-52), which receives the program specification information, including the image information stored in the VOD-S 100 or Web 612 storage mediums, selects and outputs suitable image information specified by the program specification information including image information stored in VOD-S 100 or Web 612 storage mediums and outputs a suitable image information corresponding to Display 221 or 222 “receiver terminal” information, among the plurality of types of image information stored in VOD-S 100 or Web 612 storage mediums; and

where Pro-S 103 “a distribution line selection circuit” selects either First Communication interface (First-Com) 101 or the Second Communication Interface (Sec-Com) 102 “a suitable line” corresponding to the distribution line information and outputs image information outputted from Pro-S 103 to First-Com 101 or Sec-Com 102 (col. 4, lines 5-52 and col. 5, line 53-col. 6, line 22), note that same video content can be display on the Fixed Television T-Display 121 or wire-line or wireless handheld portable computer 122, each with different selected display characteristics and selected bandwidth.

As to claims 4 and 5, Schumacher further discloses the Displays 121 and 122 includes display characteristics “resolution and physical size of a display circuit” and based on the display characteristics of Display 221 or 222, and adjusts the image information and outputs part of the received image information to Display 221 or 222 accordingly, and processes the detailed text information into abstract text information

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and outputs the abstract text information, using a suitable reproduction time base on the display type (figs. 2-5, col. 3, lines 36-53, col. 4, line 53-col. 5, line 29 and col. 6, lines 4-22), note that same video content can be display on the Fixed television display 121 or wire-line or wireless handheld portable computer 122 in accordance with the selected bandwidth.

As to claim 6, note the **Schumacher** reference figure 1, discloses a display selection in a video-on-demand system and further disclose an image distribution apparatus comprising:

the claimed "an image input part..." is met by Video-on-demand System (VOD-S) 100 (figs. 1, 6, col. 3, lines 40-49 and col. 5, lines 33-44), which receives a plurality of types or image information from an external source(s) "image supply source," such as, WWW Server (Web) 612, movies, documentaries, sports, news, etc., note that a plurality of types image information for a single program is received to enable selecting a suitable communication medium to transmits the program based on the configuration information from the receiver(s);

the claimed "an image storage medium..." is met by the VOD System 100 or Web 612 storage mediums (col. 3, lines 40-49, col. 5, lines 33-44 and col. 6, lines 27-28), which stores the image information inputted by the image WWW Server 612 or an external source(s);

the claimed "an operating information input part..." is met by Display 122 or PC or handheld PC with browser interface to Web 612 (fig. 2, col. 2, lines 58-60, col. 3, line 40-53 and col. 6, lines 4-22), which inputs operating information including information

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for identifying a program to be distributed, information relating to a display characteristics "resolution and physical size of a display circuit" of Display 221 or 222 "a receiver terminal" and information relating to bandwidth "a distribution line" (see fig. 2);

the claimed "an image processing circuit..." is met by Processing System (Pro-S) 103 (fig. 1, col. 2, lines 29-36, col. 3, lines 19-35 and col. 4, lines 5-52), which receives the program specification information, including the image information stored in the VOD-S 100 or Web 612 storage medium(s) which selects and outputs suitable image information specified by the program specification information including image information stored in VOD-S 100 or Web 612, and based on the display characteristics of Display 221 or 222, and adjusts or cuts out and outputs part of the received image information accordingly, and processes the received image information into image information by which a plurality of the image information can be displayed on a single display screen and outputs the processed image information (figs. 2-5, col. 4, line 53-col. 5, line 29 and col. 4-22), note that same video content can be display on the Fixed television display 121 or wire-line or wireless handheld portable computer 122 in accordance with the selected bandwidth; and

where Pro-S 103 "a distribution line selection circuit" selects either First Communication interface (First-Com) 101 or the Second Communication Interface (Sec-Com) 102 "a suitable line" corresponding to the distribution line information and outputs image information outputted from Pro-S 103 to First-Com 101 or Sec-Com 102 (col. 4, lines 5-52 and col. 5, line 53-col. 6, line 22).

As to claim 7, note the **Schumacher** reference figures 1, 2 and 6, discloses a display selection in a video-on-demand system and further disclose an image distribution apparatus comprising:

the claimed "an image input part..." is met by Video-on-demand System (VOD-S) 100 (figs. 1, 6, col. 3, lines 40-49 and col. 5, lines 33-44), which receives image detailed text image information from an external source(s) "image supply source," such as, WWW Server (Web) 612, movies, documentaries, sports, news, etc., note that a plurality of types image information for a single program is received to enable selecting a suitable communication medium to transmits the program based on the configuration information from the receiver(s);

the claimed "an image storage medium..." is met by the VOD System 100 or Web 612 storage mediums (col. 3, lines 40-49, col. 5, lines 33-44 and col. 6, lines 27-28), which stores the image information inputted by the image WWW Server 612 or external source(s);

the claimed "an operating information input part..." is met by Display 122 or PC or handheld PC with browser interface to Web 612 (fig. 2, col. 2, lines 58-60, col. 3, line 40-53 and col. 6, lines 4-22), which inputs operating information including information for identifying a program to be distributed, information relating to a display characteristics "resolution and physical size of a display circuit" of Display 221 or 222 "a receiver terminal" and information relating to bandwidth "a distribution line" (see fig. 2);

the claimed "an image processing circuit..." is met by Processing System (Pro-S) 103 (fig. 1, col. 2, lines 29-36, col. 3, lines 19-35 and col. 4, lines 5-52), which receives

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the program specification information, including the image information stored in the VOD-S 100 or Web 612 storage medium which selects and outputs suitable image information specified by the program specification information including image information stored in VOD-S 100 or Web 612, and based on the display characteristics of Display 221 or 222, and adjusts the image information and outputs part of the received image information to Display 221 or 222 accordingly, and processes the detailed text information into abstract text information and outputs the abstract text information (figs. 2-5, col. 3, lines 36-53, col. 4, line 53-col. 5, line 29 and col. 6, lines 4-22), note that same video content can be display on the Fixed television display 121 or wire-line or wireless handheld portable computer 122 in accordance with the selected bandwidth; and

where Pro-S 103 "a distribution line selection circuit" selects either First Communication interface (First-Com) 101 or the Second Communication Interface (Sec-Com) 102 "a suitable line" corresponding to the distribution line information and outputs image information outputted from Pro-S 103 to First-Com 101 or Sec-Com 102 (col. 4, lines 5-52 and col. 5, line 53-col. 6, line 22), note that same video content can be display on the Fixed Television T-Display 121 or wire-line or wireless handheld portable computer 122, each with different selected display characteristics and selected bandwidth.

As to claim 8, note the **Schumacher** reference figures 1, 2 and 6, discloses a display selection in a video-on-demand system and further disclose an image distribution apparatus comprising:

the claimed "an image input part..." is met by Video-on-demand System (VOD-S) 100 (figs. 1, 6, col. 3, lines 40-49 and col. 5, lines 33-44), which receives image detailed text image information from an external source(s) "image supply source," such as, WWW Server (Web) 612, movies, documentaries, sports, news, etc., note that a plurality of types image information for a single program is received to enable selecting a suitable communication medium to transmits the program based on the configuration information from the receiver(s);

the claimed "an image storage medium..." is met by the VOD System 100 or Web 612 storage mediums (col. 3, lines 40-49, col. 5, lines 33-44 and col. 6, lines 27-28), which stores the image information inputted by the image WWW Server 612 or external source(s);

the claimed "an operating information input part..." is met by Display 122 or PC or handheld PC with browser interface to Web 612 (fig. 2, col. 2, lines 58-60, col. 3, line 40-53 and col. 6, lines 4-22), which inputs operating information including information for identifying a program to be distributed, information relating to a display characteristics "resolution and physical size of a display circuit" of Display 221 or 222 "a receiver terminal" and information relating to bandwidth "a distribution line" (see fig. 2);

the claimed "an image processing circuit..." is met by Processing System (Pro-S) 103 (fig. 1, col. 2, lines 29-36, col. 3, lines 19-35 and col. 4, lines 5-52), which receives the program specification information, including the image information stored in the VOD-S 100 or Web 612 storage medium which selects and outputs suitable image information specified by the program specification information including image

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information stored in VOD-S 100 or Web 612, and based on the display characteristics of Display 221 or 222 "receiver terminal of a fixed or portable type," and adjusts the image information and outputs part of the received image information to Display 221 or 222 accordingly to meet the bandwidth and display characteristics of Display 221 or 222, and if is portable handheld PC processes the received image information so as to shorten a reproduction time of the received image information and outputs the processed image (figs. 2-5, col. 3, lines 36-53, col. 4, line 53-col. 5, line 29 and col. 6, lines 4-22), note that same video content can be display on the Fixed television display 121 or wire-line or wireless handheld portable computer 122 in accordance with the selected bandwidth; and

where Pro-S 103 "a distribution line selection circuit" selects either First Communication interface (First-Com) 101 or the Second Communication Interface (Sec-Com) 102 "a suitable line" corresponding to the distribution line information and outputs image information outputted from Pro-S 103 to First-Com 101 or Sec-Com 102 (col. 4, lines 5-52 and col. 5, line 53-col. 6, line 22), note that same video content can be display on the Fixed Television T-Display 121 or wire-line or wireless handheld portable computer 122, each with different selected display characteristics and selected bandwidth.

As to claims 9-12, Schumacher further teaches where Pro-S 103 or VOD-S 100 monitors the user of PC or Handheld PC or Display 122, as to go-to-beginning, rewind, play, fast forward, go-to-end, pause and stop "interruption" of the program being distributed (fig. 3 and col. 4, lines 53-60) and based on the priorities selected by the

user of PC or Handheld PC or Display 122 resumes the program accordingly (col. 4, line 61-col. 18 and line 51-col. 6, line 22).

As to claim 13, the claimed method for distributing image information in a computer having an input part, control part, storage part and output part, contains the same structural elements as rejected claim 1.

Claim 15 is met as previously discussed with respect to claims 9-12.

As to claim 17, note the **Schumacher** reference figures 1, 2 and 6, discloses a display selection in a video-on-demand system and further disclose an image distribution apparatus comprising:

the claimed "an image input part..." is met by Video-on-demand System (VOD-S) 100 (figs. 1, 6, col. 3, lines 40-49 and col. 5, lines 33-44), which receives image information from an external source(s) "image supply source," such as, WWW Server (Web) 612, movies, documentaries, sports, news, etc.;

the claimed "an image storage medium..." is met by the VOD System 100 or Web 612 storage mediums (col. 3, lines 40-49, col. 5, lines 33-44 and col. 6, lines 27-28), which stores the image information inputted by the image WWW Server 612 or external source(s);

the claimed "an operating information input part..." is met by Display 122 or PC or Handheld PC with browser interface to Web 612 (fig. 2, col. 2, lines 58-60, col. 3, line 44-53 and col. 6, lines 4-22), which inputs operating information including information for specifying a program to be distributed, information relating to a Display 221 or 222 "a receiver terminal" and information relating to bandwidth "a distribution line" (see fig. 2);

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the claimed "an image selecting/processing circuit..." is met by Processing System (Pro-S) 103 (fig. 1, col. 2, lines 29-36, col. 3, lines 19-35 and col. 4, lines 5-52), which receives the program specification information, including the image information stored in the VOD-S 100 or Web 612 storage medium which selects and outputs suitable image information specified by the program specification information including image information stored in VOD-S 100 or Web 612 is not suitable image information corresponding to Display 221 or 222 "receiver terminal" information, processes the program image information included in the image information stored in VOD-S 100 or Web 612 into the suitable image information and outputs the processed suitable image information; where Pro-S 103 "a distribution line selection circuit" selects either First Communication interface (First-Com) 101 or the Second Communication Interface (Sec-Com) 102 "a suitable line" corresponding to the distribution line information and outputs image information outputted from Pro-S 103 to First-Com 101 or Sec-Com 102 (col. 4, lines 5-52 and col. 5, line 53-col. 6, line 22).

Schumacher further teaches where Pro-S 103 or VOD-S 100 monitors the user of PC or Handheld PC or Display 122, as to go-to-beginning, rewind, play, fast forward, go-to-end, pause and stop "interruption" of the program being distributed (fig. 3 and col. 4, lines 53-60) and based on the priorities selected by the user of PC or Handheld PC or Display 122 resumes the program accordingly (col. 4, line 61-col. 18 and line 51-col. 6, line 22), note that same video content can be display on the Fixed Television T-Display 121 or wire-line or wireless handheld portable computer 122, each with different selected display characteristics and selected bandwidth.

As to claim 18, the claimed a computer program product stored on a computer medium for distributing image information contains the same structural elements as rejected claim 2.

As to claim 20, the claimed a computer program product stored on a computer medium for distributing image information contains the same structural elements as rejected claim 17.

As to claim 21, note the **Schumacher** reference figures 1, 2 and 6, discloses a display selection in a video-on-demand system and further disclose an operating device capable of communicating with an image distribution from an image supply source to a fixed (Television 'Display' 121) or Portable (PC or Handheld PC 'Display' 122) receiver terminal, comprising:

the claimed "an operating information generation circuit..." is met by Portable PC or Handheld PC 'Display' 122 (fig. 2, col. 3, lines 36-53 and col. 6, lines 4-22), which generates Display characteristics including bandwidth "operating information including information relating to the Television T-Display 121 "fixed type" or Portable PC or Handheld PC PC-Display 122 and information relating to the bandwidth "a distribution line;" and includes operation information transmission circuit which transmits the generated operating information to VOD System 100 or Web 612 (col. 3, line 54-col. 4, line 19 and col. 5, line 33-50), note that same video content can be display on the Fixed Television T-Display 121 or wire-line or wireless handheld portable computer 122, each with different selected display characteristics and selected bandwidth.

Claim 24 is met as previously discussed with respect to claims 9-12.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 3, 14, 16, and 19, are rejected under 35 U.S.C. 103(a) as being unpatentable over **Schumacher et al (6,757,907)** as applied to claims 2, 13 and 18 above, in view of **Reynolds et al (6,799,327)**.

As to claim 3, Schumacher teaches a fixed and browser display device 121 and 122 and retrieving website data including advertisements, but fails to explicitly teach selecting advertisement image information.

However, note the Reynolds reference discloses a program guide with selectable advertisements and pseudo-ads, which permits a Viewer to select a desired advertisement (fig. 3, col. 6, line 59-col. 7, line 7 and col. 8, line 57-67).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Reynolds into the system of Schumacher to provide advertisement to viewers and permit them to select advertisements of interest and furthermore to encourage the viewer to order products of interest from the selected advertisements.

Claim 14 is met as previously discussed with respect to claim 3.

Claim 16 is met as previously discussed with respect to claims 9-12.

Claim 19 is met as previously discussed with respect to claim 3.

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5. Claims 22-23, are rejected under 35 U.S.C. 103(a) as being unpatentable over **Schumacher et al (6,757,907)** as applied to claim 21 above, and in view of **Leonardi (6,556,680)**.

As to claims 22-23, Schumacher teaches where the VOD-S 100 or Web 612 stores user ID and operating information or characteristics of type of display and wirelessly communicating with Portable PC or Handheld PC or mobile device to meet the user's requests (col. 3, lines 36-53 and col. 5, line 58-col. 6, line 22), but fails to explicitly teach where the Portable PC or Handheld PC or mobile device includes a card insert slot which inserts a card having a user ID stored in the card inserted in the card slot.

However, note **Leonardi** reference discloses a portable mobile terminal with a slot for inserting SIM-card containing a user's ID (figs. 1-2 and col. 2, line 45-col. 3, line 36).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Leonardi into the system of Schumacher to provide a card insert with a user's ID to the Portable PC or Handheld PC or mobile device and provide security to the system, by permitting only authorize user to communicate to the video distributor or provider.

Claims 25-26 are met as previously discussed with respect to claims 9-12.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Mayer (6,191,806) discloses demand-adaptive system and method for telephone requested cable programming.

White et al (6,392,664) disclose method and system for presenting television programming and interactive entertainment.

Nagasaka et al (5,818,439) disclose video viewing assisting method and a video playback system therefor.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Annan Q Shang** whose telephone number is **571-272-7355**. The examiner can normally be reached on **700am-500pm**.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **John W Miller** can be reached on **571-272-7353**. The fax phone number for the organization where this application or proceeding is assigned is **703-872-9306**.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the **Electronic Business Center (EBC)** at 866-217-9197 (toll-free).



Annan Q. Shang.



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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600